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**1 Web content management system based on XML native database**

*Sokic, M.; Matic, V.; Bazant, A.;*

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**2 A middleware approach for SAINT (secure, automatic, interoperable, transparent) peer-to-peer content services**

*Park, J.S.; Junseok Hwang;*

Computers and Communication, 2003. (ISCC 2003). Proceedings. Eighth IEEE International Symposium on, 30 June-3 July 2003

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**3 Content management systems and e-learning systems -a symbiosis**

*Bergstedt, S.; Wiegreffe, S.; Wittmann, J.; Moller, D.;*

Advanced Learning Technologies, 2003. Proceedings. The 3rd IEEE International Conference on, 9-11 July 2003

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**4 Advanced indexing and retrieval in present-day content management systems**

*Kunkelmann, T.; Brunelli, R.;*

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**5 Content management beyond English**

*Iverson, S.P.;*

Professional Communication Conference, 2002. IPCC 2002. Proceedings. IEEE International , 17-20 Sept. 2002

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**6 Enterprise content management: an overview**

*McNay, H.E.;*

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**7 Building the mosaic: writing tips for content management**

*Burner, D.;*

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**8 Multimedia content management-provision of validation and personalisation services**

*Curtis, K.; Draper, O.;*

Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 2 , 7-11 June 1999

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**9 ERPS: a next-generation, open-source ERP architecture**

*Smets-Solanes, J.-P.; Atem de Carvalho, R.;*

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**10 Content, content, everywhere...time to stop and think? The process: Web content management**

*Goodwin, S.; Vidgen, R.;*

Computing & Control Engineering Journal , Volume: 13 , Issue: 2 , April 2002

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*Kai Cheng; Kambayashi, Y.;*

Web Information Systems Engineering, 2000. Proceedings of the First International Conference on , Volume: 1 , 19-21 June 2000  
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**12 XML content management based on object-relational database technology**

*Surjanto, B.; Ritter, N.; Loeser, H.;*

Web Information Systems Engineering, 2000. Proceedings of the First International Conference on , Volume: 1 , 19-21 June 2000  
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[\[Abstract\]](#) [\[PDF Full-Text \(868 KB\)\]](#) [IEEE CNF](#)

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**13 Performance assessment of contents management in multilevel on caches**

*Ibanez, P.; Vinals, V.;*

EUROMICRO 96. 'Beyond 2000: Hardware and Software Design Strategies', Proceedings of the 22nd EUROMICRO Conference , 2-5 Sept. 1996  
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**14 An implementation of SCORM-compliant learning content management system -content repository management system**

*Jin-Tan David Yang; Chun-Yen Tsai;*

Advanced Learning Technologies, 2003. Proceedings. The 3rd IEEE International Conference on , 9-11 July 2003  
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**15 Conceptual learning assessment and content management in e-learning platform by means of conceptual maps**

*Giovannella, C.; Selva, P.E.; Serafini, L.; Bruni, A.;*

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Pages:400 - 401

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[\[Abstract\]](#) [\[PDF Full-Text \(501 KB\)\]](#) IEEE CNF**2 XML content management based on object-relational database technology***Surjanto, B.; Ritter, N.; Loeser, H.;*

Web Information Systems Engineering, 2000. Proceedings of the First International Conference on, Volume: 1, 19-21 June 2000

Pages:70 - 79 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(868 KB\)\]](#) IEEE CNF**3 An application for multimedia content management and on-line distribution***Spadoni, F.; Tatarelli, A.; Lenzi, R.;*

Web Delivering of Music, 2002. WEDELMUSIC 2002. Proceedings. Second International Conference on, 9-11 Dec. 2002

Pages:226

[\[Abstract\]](#) [\[PDF Full-Text \(233 KB\)\]](#) IEEE CNF**4 ERP5: a next-generation, open-source ERP architecture***Smets-Solanes, J.-P.; Atem de Carvalho, R.;*

IT Professional, Volume: 5, Issue: 4, July-Aug. 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(965 KB\)\]](#) IEEE JNL

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**5 Architecture of a content management server for XML document applications**

*Arnold-Moore, T.; Fuller, M.; Kent, A.; Sacks-Davis, R.; Sharman, N.;*  
Web Information Systems Engineering, 2000. Proceedings of the First International Conference on , Volume: 1 , 19-21 June 2000  
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[\[Abstract\]](#) [\[PDF Full-Text \(748 KB\)\]](#) IEEE CNF

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**6 XML as a dynamic UI and database access customization mean**

*Guetari, R.;*  
Systems, Man and Cybernetics, 2003. IEEE International Conference on , Vol. 5 , 5-8 Oct. 2003  
Pages:4840 - 4845 vol.5

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[\[Abstract\]](#) [\[PDF Full-Text \(569 KB\)\]](#) IEEE CNF

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**7 Advanced indexing and retrieval in present-day content management systems**

*Kunkelmann, T.; Brunelli, R.;*  
Euromicro Conference, 2002. Proceedings. 28th , 4-6 Sept. 2002  
Pages:130 - 137

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[\[Abstract\]](#) [\[PDF Full-Text \(447 KB\)\]](#) IEEE CNF

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**8 Where does computational media aesthetics fit?**

*Adams, B.;*  
Multimedia, IEEE , Volume: 10 , Issue: 2 , April-June 2003  
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[\[Abstract\]](#) [\[PDF Full-Text \(269 KB\)\]](#) IEEE JNL

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**9 A generic content-management tool for Web databases**

*Kerer, C.; Kirda, E.; Kurmanowitsch, R.;*  
Internet Computing, IEEE , Volume: 6 , Issue: 4 , July-Aug. 2002  
Pages:38 - 42

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[\[Abstract\]](#) [\[PDF Full-Text \(653 KB\)\]](#) IEEE JNL

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**10 Video content management in consumer devices**

*Dimitrova, N.; McGee, T.; Elenbaas, H.; Martino, J.;*  
Knowledge and Data Engineering, IEEE Transactions on , Volume: 10 , Issue: 6 , Nov.-Dec. 1998  
Pages:988 - 995

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**11 An electronic journal management system**

*Bogunovic, H.; Pek, E.; Loncaric, S.; Mornar, V.;*  
Information Technology Interfaces, 2003. ITI 2003. Proceedings of the 25th

International Conference on , 16-19 June 2003  
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**12 The audience of one: making professional communication personal**  
*Price, J.;*  
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**13 The road to single-sourcing: a case study**  
*Steele, K.;*  
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**14 Automatic generation of content management systems from EER-b specifications**  
*Vigna, S.;*  
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**15 Building the mosaic: writing tips for content management**  
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Professional Communication Conference, 2002. IPCC 2002. Proceedings. IEEE International , 17-20 Sept. 2002  
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TENCON '02. Proceedings. 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering , Volume: 1 , 28-31 Oct. 2002  
Pages:5 - 10 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) IEEE CNF**2 Building large scale ontology networks***Varma, V.;*

Language Engineering Conference, 2002. Proceedings , 13-15 Dec. 2002  
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[\[Abstract\]](#) [\[PDF Full-Text \(218 KB\)\]](#) IEEE CNF**3 Digital multimedia content management for networked information access: issues and discussion***Yu, H.H.; Gelman, A.;*

Advance Issues of E-Commerce and Web-Based Information Systems, WECW 1999. International Conference on , 8-9 April 1999  
Pages:75 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(176 KB\)\]](#) IEEE CNF**4 Device cooperation and content management for remote-control microscope for medical use***Kidawara, Y.; Shinomiya, S.; Sakurada, T.; Nagata, H.; Nakagawa, S.;*

Advanced Information Networking and Applications, 2003. AINA 2003. 17th International Conference on , 27-29 March 2003  
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**5 Monitoring distributed systems: a publish/subscribe methodology a architecture**

*Witting, K.; Challenger, J.; O'Connell, B.;*

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**6 Knowledge management in a multimedia environment: some key research issues**

*Rodd, M.G.; Miskin, A.; Tomlinson, J.;*

Research and Development, 2002. SCORed 2002. Student Conference on , 11 July 2002

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**7 Design and evaluation of a distributed scalable content discovery system**

*Jun Gao; Steenkiste, P.;*

Selected Areas in Communications, IEEE Journal on , Volume: 22 , Issue: 1 , 2004

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**8 Content delivery networks: status and trends**

*Vakali, A.; Pallis, G.;*

Internet Computing, IEEE , Volume: 7 , Issue: 6 , Nov.-Dec. 2003

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**9 Managing system and active-content integrity**

*Michener, J.R.; Acar, T.;*

Computer , Volume: 33 , Issue: 7 , July 2000

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**10 A caching architecture for content delivery to mobile devices**

*Kara, H.; Edwards, C.;*

Euromicro Conference, 2003. Proceedings. 29th , 1-6 Sept. 2003

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**11 Speech technology for multimedia content management**

*Nguyen, P.; Kryze, D.; Kuhn, R.; Kobayashi, M.; Yasukata, M.;*

Consumer Communications and Networking Conference, 2004. CCNC 2004. F

IEEE , 5-8 Jan. 2004  
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**12 Design of a distributed P2P-based content management middleware**  
*Hausheer, D.; Stiller, B.;*  
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**13 A multi-agent system for online course content management**  
*Komatsu, R.; Jianhua Ma; Qun Jin;*  
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**14 Utilizing the mixer method for content management**  
*Dissanaike, S.; Wijkman, P.; Wijkman, M.;*  
Advanced Information Networking and Applications, 2004. AINA 2004. 18th International Conference on , Volume: 2 , 29-31 March 2004  
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**15 Laramedia Inc., an Internet distribution network for commercial audio**  
*Laramee, T.;*  
Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third International Conference on , 15-17 Sept. 2003  
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**1 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems**

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)

**3 Research contributions: Facilitating localized exploitation and enterprise-wide integration in the use of IT infrastructures: the role of PC/LAN infrastructure standards**

Timothy R. Kayworth, V. Sambamurthy  
September 2000 **ACM SIGMIS Database**, Volume 31 Issue 4

Full text available: [pdf\(2.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two often-contradictory dilemmas confront firms in their efforts at promoting IT-based innovation: facilitate localized exploitation of the IT infrastructure within individual business units, but also ensure enterprise-wide integration of IT innovation initiatives to facilitate business applications that exploit inter-unit synergies. Therefore, developing an IT infrastructure that is conducive to both localized exploitation and enterprise-wide integration is important. In this context, IT infras ...

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**Keywords:** IS implementation, case study, management information systems, organizational structure, strategic issues

**4 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world**

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available:  [pdf\(176.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

**Keywords:** ISP, Internet, end-to-end argument

**5 Human-computer interface development: concepts and systems for its management**

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  [pdf\(7.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

**6 Access control for large collections**

H. M. Gladney

April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Full text available:  [pdf\(482.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

**Keywords:** access control, digital library, document, electronic library, information security

**7 Business-to-business interactions: issues and enabling technologies**

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available:  [pdf\(558.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as

long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

**Keywords:** B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

8 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Full text available:  [pdf\(4.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

9 Curriculum recommendations for graduate professional programs in information systems

May 1972 **Communications of the ACM**, Volume 15 Issue 5

Full text available:  [pdf\(4.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

**Keywords:** education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

10 A history of the Promis technology: an effective human interface

Jan Schultz

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Full text available:  [pdf\(2.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scientific computing systems for individuals were pioneered early at Hewlett-Packard, beginning with the 9100A Desktop Calculator in 1968. Extensions of this first machine were soon seen in Personal Peripherals, such as Printers, Tape Cartridges, and Plotters, and followed by Graphic CRT Displays. By early 1972, the Desktop unit had been augmented by a very powerful Pocket Calculator, the ground-breaking HP 35A. This paper traces the evolution of these machines to the present day, ...

11 LegionFS: a secure and scalable file system supporting cross-domain high-performance applications

Brian S. White, Michael Walker, Marty Humphrey, Andrew S. Grimshaw

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(499.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Realizing that current file systems can not cope with the diverse requirements of wide-area collaborations, researchers have developed data access facilities to meet their needs. Recent work has focused on comprehensive data access architectures. In order to fulfill the evolving requirements in this environment, we suggest a more fully-integrated architecture built upon the fundamental tenets of naming, security, scalability, extensibility, and adaptability. These form the underpinning of the Le ...

**12 Middleware: a model for distributed system services**

Philip A. Bernstein

February 1996 **Communications of the ACM**, Volume 39 Issue 2Full text available:  [pdf\(238.25 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13 Access control with IBM Tivoli access manager**

Günter Karjoth

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2Full text available:  [pdf\(367.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

**Keywords:** Access control, WWW security, Web servers, authorization management

**14 Constraints: An approach to engineer and enforce context constraints in an RBAC environment**

Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**Full text available:  [pdf\(377.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...

**15 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity**

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4Full text available:  [pdf\(502.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

**Keywords:** electronic commerce, formal language for business communication, speech act theory

**16****Design and implementation of a distributed virtual machine for networked computers**

Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad  
December 1999 **ACM SIGOPS Operating Systems Review, Proceedings of the  
seventeenth ACM symposium on Operating systems principles**, Volume 33  
Issue 5

Full text available:  [pdf\(1.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

**17 A component model for standardized web-based education**

August 2001 **Journal on Educational Resources in Computing (JERIC)**

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We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet protocols. The service level provides a network-transparent communications layer, data ...

**Keywords:** authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

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